

UNCRATING/INSTALLATION  
INSTRUCTIONS

AMSCO® RELIANCE® 120/120L 220/220L  
**Cart and Utensil Washers**

(09/22/00)  
Rev. **2**

**P-122990-091**

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# A WORD FROM STERIS CORPORATION

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Follow each step of the Uncrating/Installation instructions in the order presented. Open the crate(s) carefully to avoid damage to the equipment inside. If you find any indication of damage to the equipment (no matter how slight), show it to your supervisor.

To properly install this unit, you will need the Equipment Drawings (previously furnished), showing all utility service and space requirements. If drawings cannot be located, replacement copies may be obtained by writing, faxing or telephoning STERIS giving the serial and model numbers of your equipment.

Once installed, equipment operation should be tested by a qualified service technician prior to your usage of the equipment.

If STERIS supervision is desired for installing and starting up this equipment, contact your local STERIS representative.

## Service Information

A thorough preventive maintenance program is essential to safe and proper equipment operation. You are encouraged to contact your STERIS representative concerning extended service maintenance agreements to give your washer planned maintenance, assuring equipment performance according to factory specifications. A global network of skilled service specialists can provide periodic inspections and adjustments to assure low-cost peak performance. STERIS representatives can provide information regarding Annual Maintenance Agreements.

STERIS carries a complete line of accessories for use in this equipment. A STERIS representative will gladly review these with you.

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## Indications for Use

The Amsco® Reliance® 120/120L and 220/220L Cart and utensil Washers are high capacity mechanical washers intended for use in the efficient washing and drying of utensils, carts and other miscellaneous reusable items used in the care of patients.

These washers are specifically designed to only process goods as outlined in the Operator Manual, provided with unit. If there is any doubt about a specific material or product, contact the manufacturer of the product for the recommended washing technique.

## Advisory

A listing of the safety precautions to be observed when uncrating, installing and testing this equipment can be found in Section 1 of these instructions. Do not begin uncrating/installing this equipment until you have become familiar with this information.

Any alteration of the washer not authorized or performed by STERIS Engineering Service which could affect its operation will void the warranty, could adversely affect washing efficacy, could violate national, state and local regulations, and could jeopardize your insurance coverage.

**IMPORTANT:** Be sure to check the Occupational Health and Safety Act, as well as local electric and plumbing codes, for any special requirements that may pertain to installation of this unit.

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# LISTING OF WARNINGS, CAUTIONS AND SYMBOLS

1


The following is a listing of the safety precautions which must be observed when uncrating, installing and operating this equipment. WARNINGS indicate the potential for danger to personnel, and CAUTIONS indicate the potential for damage to equipment. These precautions are repeated throughout the instructions.

## WARNING - PERSONAL INJURY AND/OR EQUIPMENT DAMAGE HAZARD:

-  Use an overhead hoist to lift unit. Unit weighs in excess of 4000 lbs, with 60% of the weight on the service side of the unit.
-  DO NOT move crates once they have been opened.


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## WARNING - LACERATION/EYE INJURY HAZARD:

-  Wear eye protection and always use a tool specifically designed for cutting the bands. The bands used to secure this container can cause personal injury when cut and tension is released.





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## WARNING - ELECTRIC SHOCK AND/OR BURN HAZARD:

-  Make sure power is OFF when checking operation valves, and that machine is cool. Valves are energized when power is on and piping/valves are hot after machine has been run.

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## WARNING - BURN HAZARD:

-  Wear gloves and face protection and open door slowly if it is necessary to open door during a cycle. Hot water may be sprayed through door opening when checking automatic stop while washing is operating.
-  After pressing STOP, wait until water flow stops before opening door. Hot water/steam may be sprayed through door opening if door is opened too soon.
-  Make sure power switch is OFF and keep chamber door(s) open when entering chamber to check operation of safety cable. When power is ON and door is closed, a cycle can be started and hot water would be sprayed into chamber.
-  Allow piping to cool down before inspecting and/or cleaning supply-line strainers.




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## WARNING - FALL HAZARD:

-  To prevent falls, keep floors dry. Promptly clean up any spills or drippage.

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## CAUTION - POSSIBLE EQUIPMENT DAMAGE:

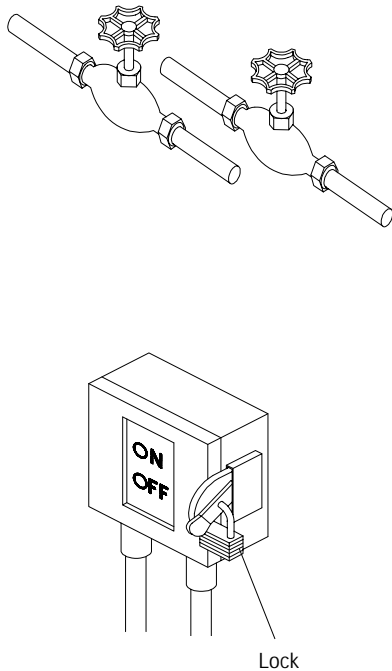
-  When removing adhesives from stainless steel, use a solvent specially formulated for that purpose. Rub in back-and-forth motion (in same direction as surface grain). Solvent rubbed in a circular motion or applied with a wire brush or steel wool on door and chamber assemblies can be harmful to stainless steel. Do not use solvents on painted surfaces.
-  Once three-phase power is connected, check pump for correct rotation. Incorrect pump rotation may result in pump damage and improper cleaning action.
-  When choosing a detergent, use one with a low chloride content. Detergents with a high chloride content can be harmful to stainless steel.

## Symbols

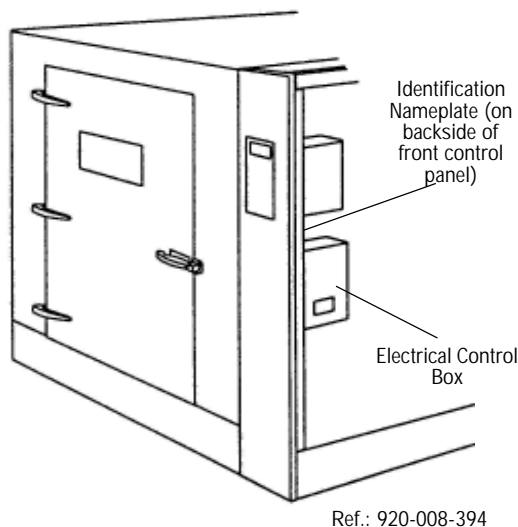
Symbol	Definition
	Tip'N Tell Indicator.
	This Side Up.
	Maximum Relative Humidity.
	Keep Dry.
	Fragile.
	Do not Stack.
	Maximum Temperature.
	Open this Side.
<b>A</b>	Amperage Rating of the Unit.
<b>V</b>	Voltage Rating of the Unit.
~	Alternating Current
<b>kW</b>	Power Rating of the Unit
<b>Hz</b>	Frequency of the Unit
$\phi$	Phase of the Unit



## Before Installing Equipment



**Figure 2-1. Utility Service Connections**



**Figure 2-2. Identification Nameplate**

**IMPORTANT:** Be sure to check the Occupational Health and Safety Act, as well as local electrical and plumbing codes, for any special requirements that may pertain to installation of this unit.

An optional seismic anchorage system is available for high risk seismic zones.

1. Review installation requirements.

a. **Clearance** – Clearance space shown on Equipment Drawing is necessary for easy installation and proper operation of unit.

b. **Utility Service Lines:**

- To allow service on unit without shutting off building supply lines, shutoff valves (not by STERIS) should be installed on steam and water lines to unit (see Figure 2-1). Shutoff valves must be capable of being locked in OFF position only.
- Disconnect switches (not by STERIS) should be installed in electric supply lines near washer (see Figure 2-1). Disconnect switches must be capable of being locked in the OFF position only.
- If this machine is installed next to other equipment, shutoff valves and disconnect switches should be located so that service can be shut off to one piece of equipment at a time.
- The disconnect device of the equipment must be within easy reach of the operator (preferably no more than 3 feet [1 m] away from equipment).
- Utility service requirements are shown on the Equipment Drawing.

c. **Electricity:**

- This machine requires either 208 V~, 60 Hz, 3-phase, 4-wire; 240 V~, 60 Hz, 3-phase, 3-wire; 480 V~, 60 Hz, 3-phase, 3-wire; or 600 V~, 60 Hz, 3-phase power.
- Check the Equipment Drawing or Identification Nameplate on backside of front control panel, next to the electrical control box, for proper voltage (see Figure 2-2).

**NOTE:** Washer is designed to be recessed through two walls. If unit is recessed through one wall or freestanding, service side must be enclosed.

2. Place washer in position as shown on Equipment Drawing, in correct relation to building supply lines. If unit is not at installation site, refer to Uncrating/Installations Instructions (Section 3) for proper moving instructions.

**NOTE:** Unit must be level. If necessary, use shims (not supplied with unit) to level machine. If the unit is not level, water level control and drain may not work properly.

3. Make sure washer is placed, as shown on Equipment Drawing, in correct relation to building supply lines.
4. If washer is pit mounted:
  - Pit must be clean.
  - Pit drain piping should be level with pit floor to allow water to drain.

## Open Crates

**NOTE:** This equipment weighs approximately: Model 120/120L 3500 lb (1590kg); Model 220/220L 4400 lb (2000 kg). Sixty per cent of its weight is concentrated on service side. Special handling equipment (i.e., an overhead hoist) is required to uncrate and handle it. Uncrate on a level floor as close to installation site as possible.

**NOTE:** If a drying package (vented or non-vented) has been ordered, it is packed in a separate crate: crate D. Uncrate this equipment after washer is installed.

**NOTE:** Uncrate on level floor as close to installation site as possible.

## Assembled Unit Assembly

A fully equipped assembled unit should consist of one to three crates, depending upon options ordered:

- Crate A: Amsco® Reliance® 120/120L Cart and Utensil Washer 3500 lb (1590kg).
- Crate A: Amsco® Reliance® 220/220L Cart and Utensil Washer 4400 lb (2000 kg).
- Crate D: Booster Fan Option and /or Optional Condenser or Drying Option (1225 lbs [556 kg]).
- Crate E (Optional): Exterior Panels 800 lb (360 kg).

**NOTE:** There are no crates B or C for assembled units.



**WARNING - LACERATION/EYE INJURY HAZARD:** Wear eye protection and always use a tool specifically designed for cutting the bands. The bands used to secure this container can cause personal injury when cut and tension is released.

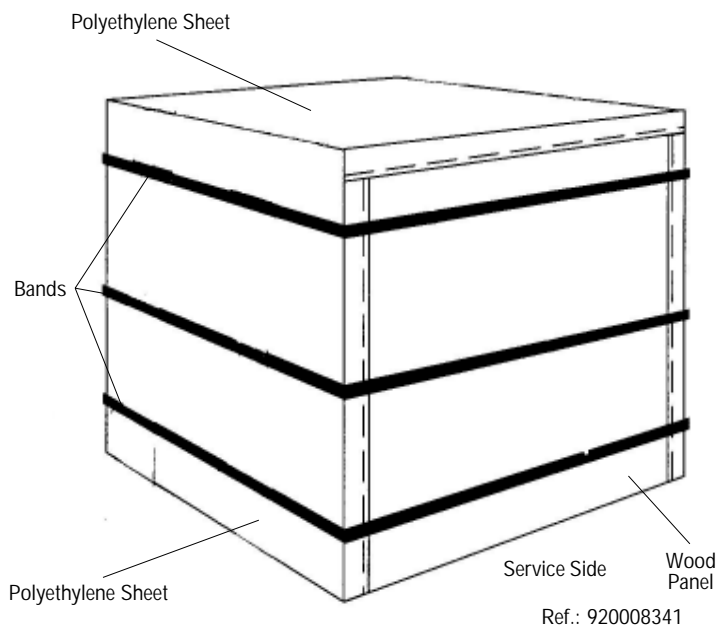


**PERSONAL INJURY AND/OR EQUIPMENT DAMAGE HAZARD:** Use an overhead hoist to lift unit. Unit weighs in excess of 4000 lbs, with 60% of the weight on the service side of unit.

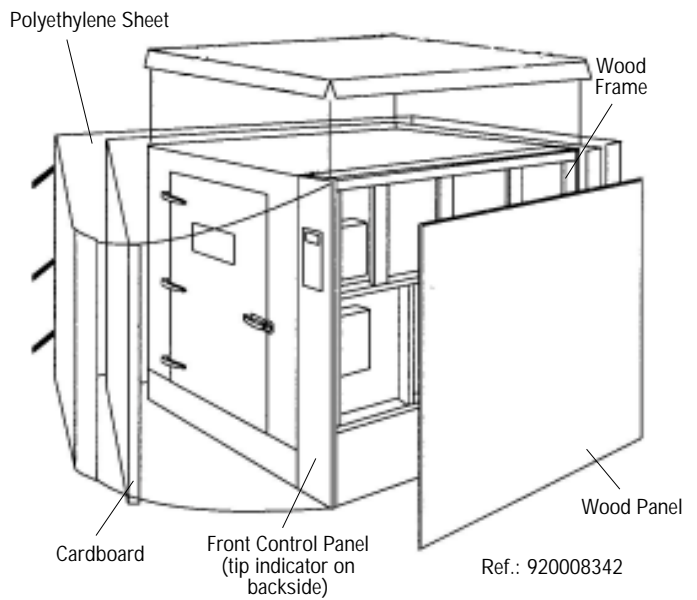
1. Position crate so that there is a clear work area on all sides.
  2. Carefully cut and remove bands from crate. Discard bands before continuing (Fig. 3-1).
  3. Remove and discard polyethylene sheets (Fig. 3-2).
  4. Remove and discard wooden panel from service side.
  5. Remove and discard cardboard and service-side wooden frame.
  6. Check tip indicator, located in service compartment, on back-side of front control panel, below the controls. Tip indicator contains a blue compound at the bottom of the indicator. If unit has been tipped, residue from the blue compound will be found higher up in the indicator. If unit has been tipped, contact your STERIS representative to determine if a service technician is required to inspect the equipment and determine if unit was damaged (Fig. 3-2).
- Move the Washer:
    1. Lift washer using beams or attaching eyebolts (not provided with washer) to the threaded inserts provided at each corner of washer (see Fig. 3-3).

**NOTE:** If attaching eyebolts, use four 3/4"-10 eyebolts.

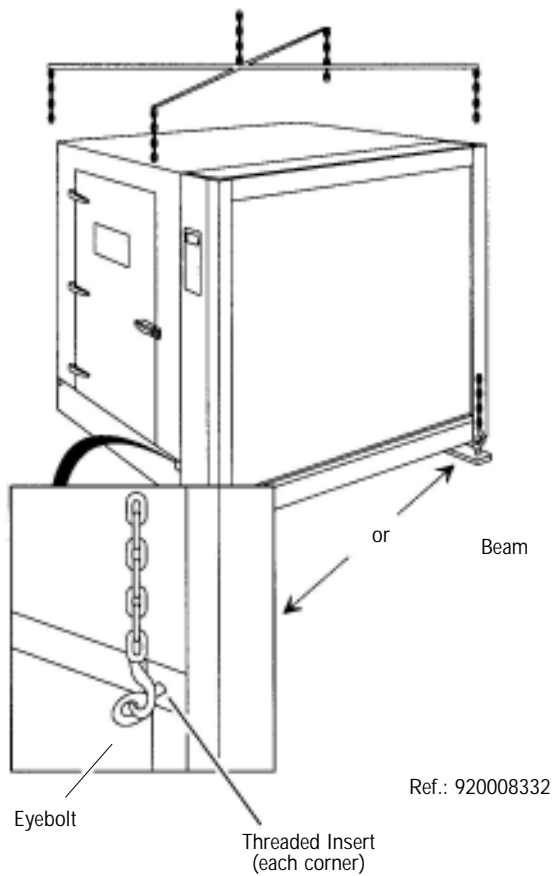
2. Make sure that pit or floor are level before installing the unit. Use shims (not provided by STERIS) if necessary.
3. Refer to Equipment Drawing(s) and seismic anchorage report, if option applies, for clearance and proper installation.
4. Position rollers or pipes under washer as shown in Fig. 3-4.
5. Move washer to its permanent site.



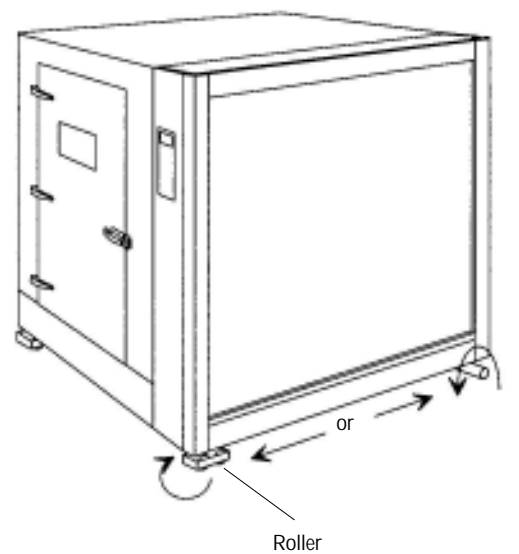
**Figure 3-1. Remove Bands**



**Figure 3-2. Remove Packing Material**

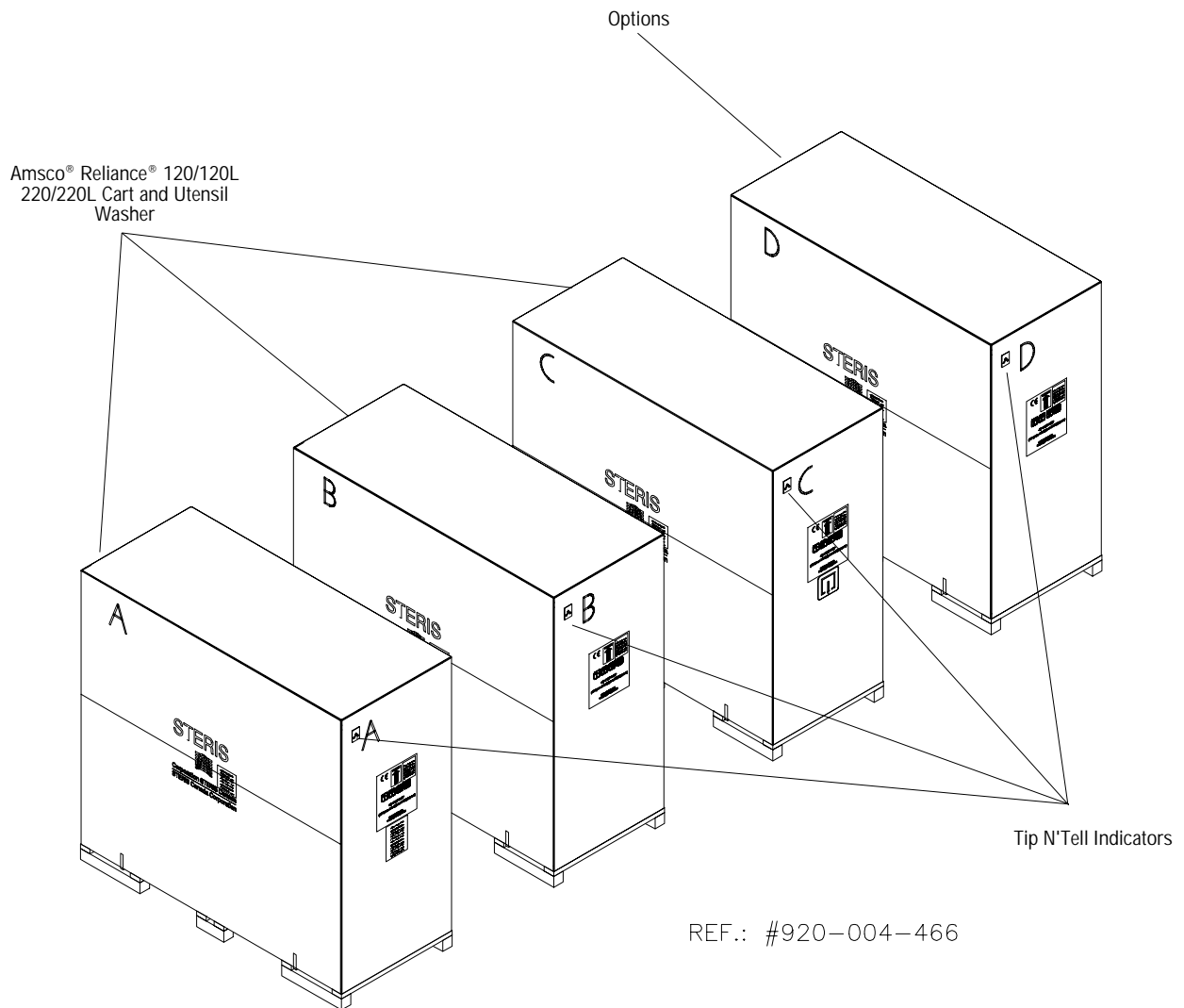


**Figure 3-3. Lift Washer Using Beams or Eyebolts**



**Figure 3-4. Move Washer Using Rollers or Pipes**

- Component box:  
Interior light assembly (61); Sump filter (83); Stopper (88).
  - Hardware kit (117-904-591 bolted):  
#16-14 receptacle connectors;  
white coupling connectors;  
#12-10 ring terminals;  
#1 connectors; #2 connectors;  
14", 7-3/4" and 5" tie-wraps;  
300ml clear silicone tube;  
silicone gun;  
STERIS stainless steel cleaner;  
Thread Lock sealant;  
all-purpose wipers package;  
1/4-20 x 1/2" bolts;  
1/4-20 x 3/8" bolts; 1/4-20" nuts,  
1/4" washers;  
1/4" spring washers;  
3/8-16 x 1" bolts;  
3/8" spring washers;  
5/16-18 x 3/4" bolts;  
5/16" spring washers;  
8-32 x 1-1/2" truss head screws;  
5/16" washers;  
3/8-16 x 3/4" bolts.
  - Hardware kit (117-910-020 welded):  
#16-14 reception connectors;  
white coupling connectors;  
#12-10 ring terminals;  
#1 connectors;  
#2 connectors;  
14", 7-3/4" and 5" tie-wraps;  
STERIS stainless cleaner;  
Thread lock sealant;  
all-purpose wipers package;  
1/4-20 x 1/2" bolts;  
1/4-20 x 3/8" bolts;  
1/4-20" nuts,  
1/4" washers;  
1/4" spring washers;  
3/8-16 x 1" bolts;  
3/8" spring washers;  
5/16-18 x 3/4" bolts;  
5/16" spring washers;  
8-32 x 1-1/2" truss head screws;  
5/16" washers; 3/8-16 x 3/4" bolts.
1. Prepare Washer for Installation (for proper installation, see Equipment Drawing):
    - a. Remove tape from control panel. Remove all tape from washer. Remove pin(s) securing chamber door(s).
    - b. Remove envelope containing Operator Manual and other printed material. Give to appropriate personnel.
- Go to section: Crate D, E or Option, if any option applies.



**Figure 3-5. Crates**

## Disassembled Unit Assembly

**WARNING - PERSONAL INJURY AND /OR EQUIPMENT DAMAGE HAZARD: DO NOT move crates once they have been opened.**

A fully equipped, disassembled unit should consist of 4 or 5 crates, depending upon options ordered:

- Crate A: Model 120/120L: 2200 lbs (998 kg)  
Model 220/220L 2700 lbs (1225 kg)
- Crate B: Model 120/120L: 1800 lbs (816 kg)  
Model 220/220L 2200 lbs (998 kg)
- Crate C: Model 120/120L: 1100 lbs (500 kg)  
Model: 220/220L 1100 lbs (500 kg)
- Crate D: all models: 1225 lbs (556 kg). See Figures 3-12 and 3-12A.
- Crate E (Optional): Exterior Panels 800 lbs (360 kg)

Follow sequence as given in instructions. Each item to be assembled is tagged with a number and description. Items are bolted to crate to avoid damage. Provide a clear work area. Allow 3' (90 mm) from wall to crate on the rear and a space twice the large of crate in the front of it.

**IMPORTANT:** Bring in and uncrate crates A and B. Start opening crates by the ends, NOT by the sides.

**NOTE:** Use a forklift to move crates.

**NOTE:** Uncrate on level floor as close to installation site as possible.

### » Crate A Contents (Reference figures 3-6 and 3-8):

**WARNING - LACERATION/EYE INJURY HAZARD: Wear eye protection and always use a tool specifically designed for cutting the bands. The bands used to secure this container can cause personal injury when cut and tension is released.**

**PERSONAL INJURY AND/OR EQUIPMENT DAMAGE HAZARD: Use an overhead hoist to lift unit. Unit weighs in excess of 4000 lbs, with 60% of the weight on the service side of unit.**

- Unload side end (9A).
- Load side end (10A).
- Sump frame (23).
- Center non-service side (21) and center service side panels (22) (120L and 220L models only).
- Service side panels (24, 25).
- Non-service side panels (26, 27).
- Hardware kit #117-904-166:
  - #16-14 receptacle connectors;
  - white coupling connectors;
  - #12-10 ring terminals;
  - #1 connectors; #2 connectors;
  - 14", 7-3/4" and 5" tie-wraps;
  - 300 ml clear silicone tube; silicone gun;
  - STERIS stainless steel cleaner;
  - Thread lock sealant;
  - all-purpose wipers package;
  - 1/4-20 x 1/2" bolts;
  - 1/4-20 x 3/8" bolts;
  - 1/4-20 x 3/4" bolts;
  - 1/4-20 x 1" bolts;
  - 5/16-18 x 3/4" bolts;
  - 3/8-16 x 3/4" bolts;
  - 3/8-16 x 2" bolts;
  - 6-32 x 3/8" truss head screws.
- Component box:
  - Unload side panel support (11b); Load side panel support (12B); Pulley for traveler (33A); Pulley support for traveler (40); Interior light assembly (61); Sump filter (83); Stopper (88); Hinge pins and washers; tri-clamp and gasket for water inlet; Operator Manual.

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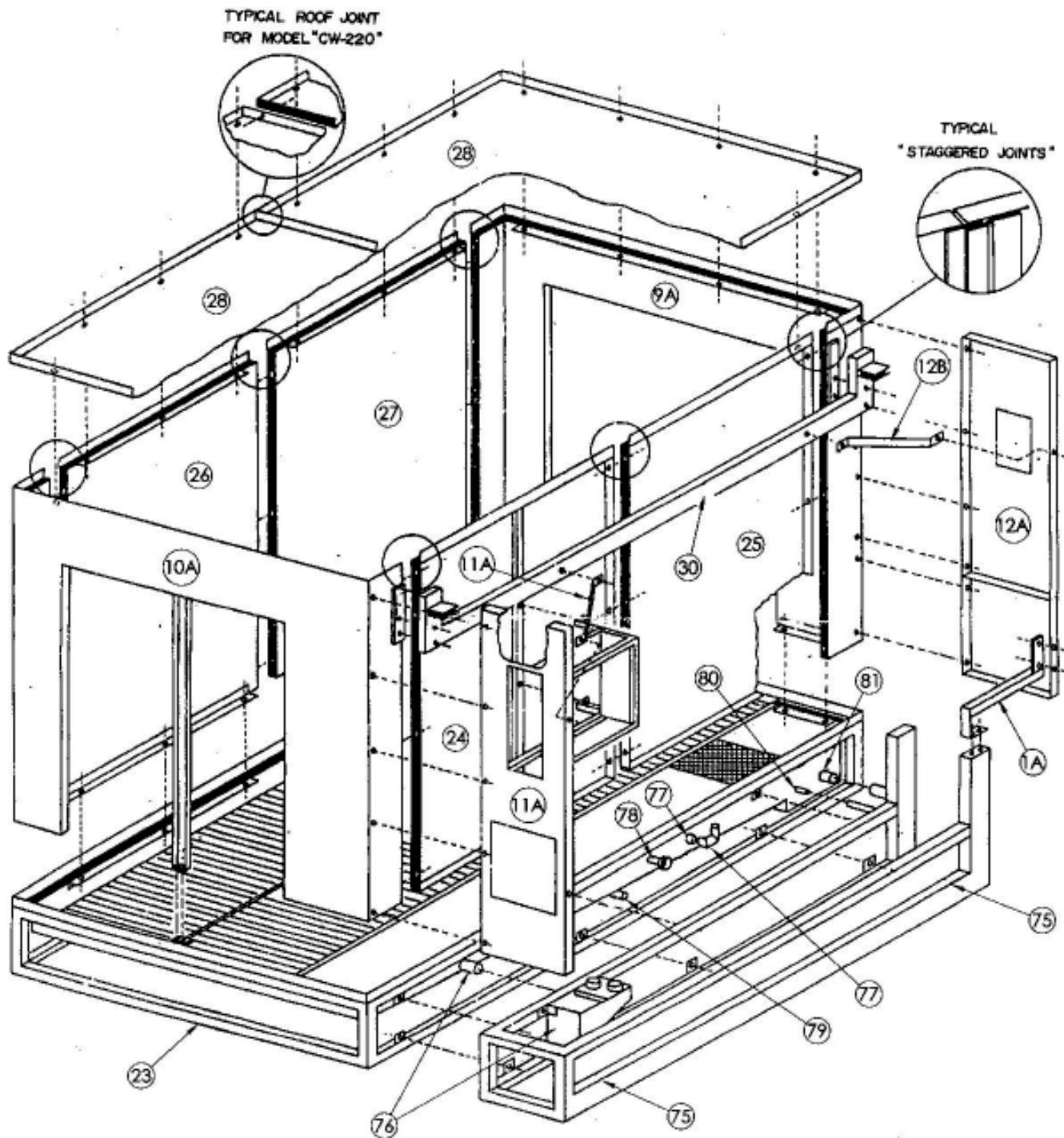
» Crate B Contents:

- Load side panel (11A).
- Unload side panel (12A).
- 3 Roof sections (28A, 28B, 28C).
- Traveler system with cables and fixtures (30) and motor (51).
- Traveler support (31).
- Traveler support (32).
- Traveler spray cart (33).
- Left guards: top (34A), middle (34B), bottom (34C).
- Center guards: top (35A), middle (35B), bottom (35C).
- Right guards: top (36A), (36B), (36C).
- Hose for filter (37), (38).
- "U" bar spray nozzles (39A), (39B), (39C).
- Service side frame assembly (75): air inlet (42), water collector (76), traveler spray cart inlet (78), sump water level (80), pump (81), junction box (55), detergent pump support (1a). Detergent pump support assembly: detergent pipe (43); electrical conduit (82) from detergent container to junction box (64); pipe for rinse agent (90), alarm wire (121); filler for traveler system (option 79).
- Non-service and service side floor plate guides (68).
- Sump hot water elbow (77).
- Suction duct drain hose (114) and valve (if not condenser).
- Plenum chamber (132) (if drying option).

***NOTE: if unit is ordered without condenser, there is an electrical box (2A) and an electrical conduit for an exterior fan on traveler system.***

» Sump ***NOTE: assemble service side base to sump frame on a plate surface (see Figure 3-6).***

1. Fasten the service side base assembly (75) (located in crate B) with sump frame (23) by the seven identified holes. Use six 1- 3/8-16 x 1/2 bolts and six 3/8" nuts provided.
2. Connect tub overflow to water collector (76).
3. Connect very hot water tub elbow (77), traveling spray cart tub inlet (78), utensil cart tub inlet (if UC option is selected) (79), water level tub outlet (80) and pump inlet (81). Use provided hose joints and geared clamps.
4. Install service side base assembly (23) and sump frame (75) in the pit (or on the floor for floor mounted units). Make sure that load and unload sides corresponds to layout. Refer to Equipment Drawing(s).
5. When sump frame (23) and service side base assembly (75) are in their final position, verify if they are leveled (use shims, not provided, to level if necessary).



**Figure 3-6. Cabinet Panels Assembly**

» Load Side and Service Side Panels

**NOTE:** *At least two people are required to assemble side panels.*

**IMPORTANT:** Seal each joint with silicone to assure water tightness of the washer. Use provided silicone tubes for this purpose. (See Figure 3-6 for details concerning joint locations).

1. Spread a bead of silicone on load side sump base as shown on fig. 3-6 and install load side end panel (10A). Use two 1/4 - 20 x 1/2 hex bolts and two 1/4 - 20 nuts provided to fasten. As much as possible, keep this end at right angle with the base to ease side panel installation.
2. Bolt the lower part of panel to the angle already welded in the sump frame. Use two 1/4-20 x 1/2 hex bolts and two 1/4 washers provided. The upper part will be fastened when installing roof.
3. Spread a bead of silicone on top and side of service side panel (24) and seat over sump joining load side end panel. Bolt using three 1/4-20 x 1/2 hex bolts and three 1/4 washers and nuts.
4. Repeat same procedure for service side panels (25) [and (22) on Models 120L and 220L].
5. These operations completed, bolt side panels at the joints, with the screws, washers and nuts provided. See Fig. 3-6.

**NOTE:** *For CW-220 only: Fix the bottom of the support for center guards in the middle of the opening on the load side end (10A). Use provided screws and washers to fasten it.*

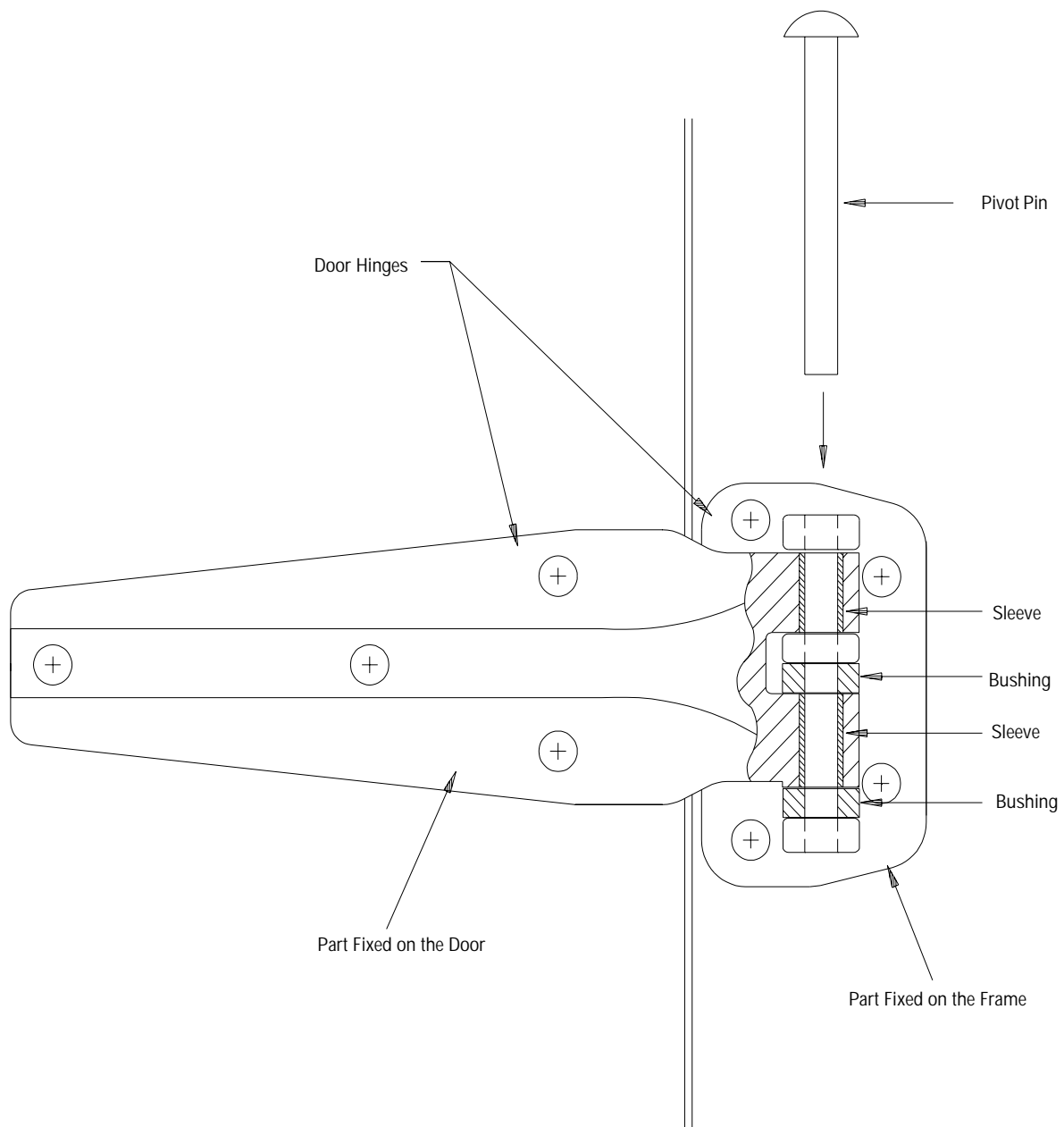
» Unload Side and Non-Service Side Panels

1. Spread a bead of silicone on top and side of non-service side panel (26) and seat over sump joining load side end panel (10A). Bolt using three 1/4-20 x 1/2 hex bolts and three 1/4-20 nuts.
2. Repeat same procedure for non-service side panels (27) [and (21) on models 120L and 220L].
3. Install load side end (9A). Proceed in the same way as in the unload side, then fasten.

**NOTE:** *For CW-220 only: Fix the bottom of the support for center guards in the middle of the opening on the unload side end (9A). Use provided screws and washers to fasten it. See Fig. 3-6.*

**IMPORTANT:** Special attention is required when assembling side and end panels, to assure the alignment of the staggered joint. See detail in Fig. 3-6.

4. After side and end panel installation is completed, verify all the construction is as squared as possible (to ease assembling of the roof).



Ref.: 920-007-983

**Figure 3-7. Install Door Hinges**

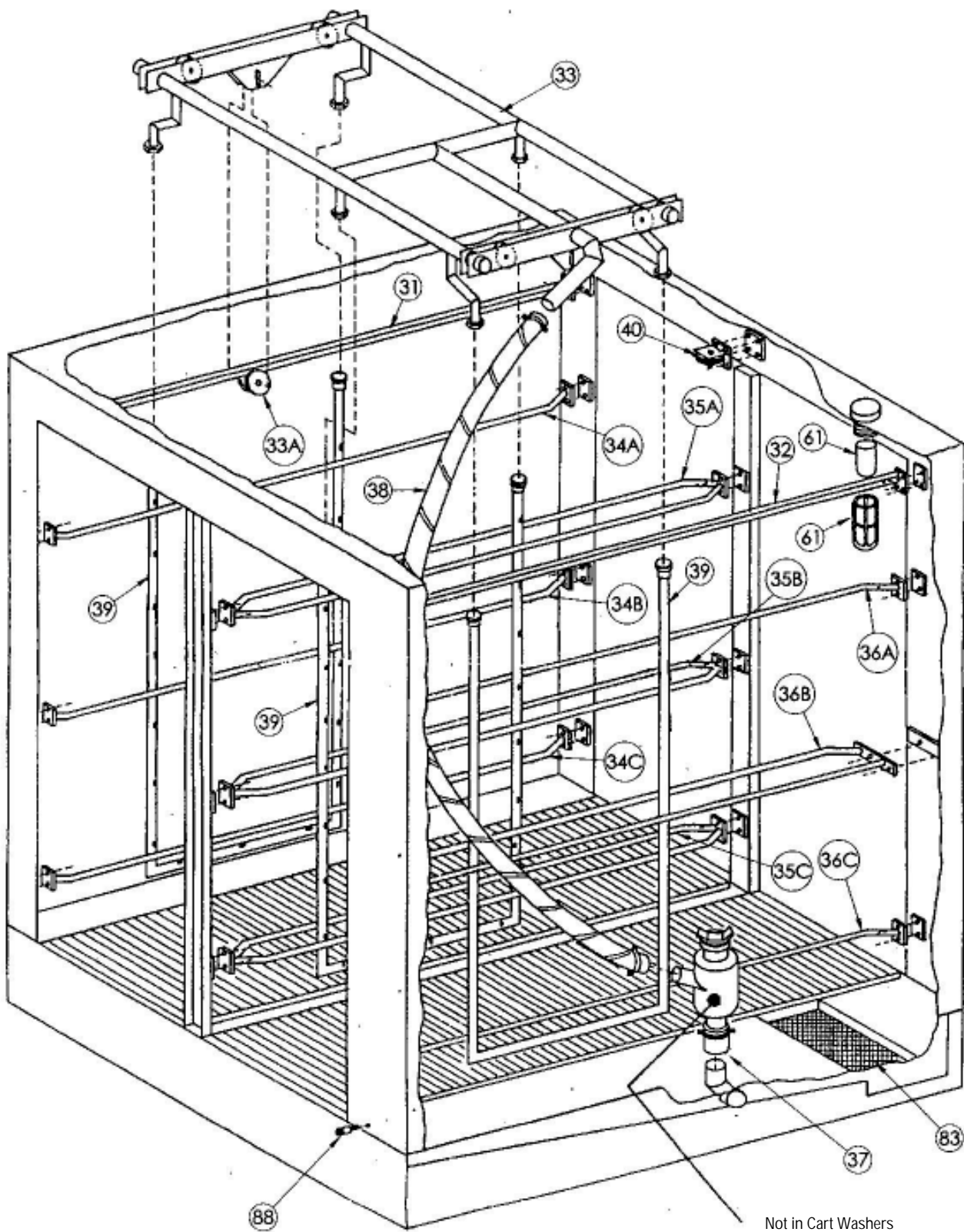
» Roof (Crate B)

**NOTE:** For washers with drying options: The roof is made of three parts identified by the number: (28a, 28b and 28c).

1. Apply a bead of silicone on top of side panels, non-service and service side (see Fig. 3-6).
2. Fasten roof (28) at the upper part of the end and side panels by the interior. Use sixteen 1/4-20 x 1/2 hex bolts. Then, fit the plenum chamber (132) (if Drying option) air intake into the appropriate opening in the top. One end of the plenum is fastened to the top with two bolts, the other end is fastened from the top by bolting the air intake to the opening flange.

» Doors **NOTE:** Door installation can be performed later, when all inside chamber components are installed.

1. Install door (10) on load side end (10A) as shown on Fig. 3-7. Insert pins into door hinges.
  2. Install stopper (88) indicated on load side (fig. 3-8).
- If pass-through option is selected:
    1. Install the door(s) (9) on unload side end (9A) as in step 1.
    2. Install stoppers (88) on load and unload side ends (if necessary).



Not in Cart Washers

Ref.: 920-008-375

**Figure 3-8. Guides, Traveler, and "U" Bars Assembling**

## » Control Panel Assembly

1. Install the control panel brace (1A) on the motor side of the service frame. Use two 1/4-20 x 1/2 hex bolts and two 1/4 washers. See Figure 3-6.
2. Attach control panel (load side) (11A) by the side of the load side end (10A) along with the programmer support, on the square tube already installed on service side panel (24). Use five 1/4-20 x 1/2 hex bolts and five 1/4 washers.
3. Attach the control panel (unload side) (12A) by the side of the unload side end (9A). Use one 1/4-20 x 1/2 hex bolt, 1/4-20 nut and 1/4 washer. The lower part of this panel (12A) is bolted to the frame of the service side by the brace (1A).

## » Guides and Traveling Spray Cart Assembly

- Inside washer:
1. Attach non-service side guides (31). Use six 1/4-20 x 1/2 hex bolts (see Figure 3-8).
  2. Bring one side of the traveling spray cart (33) identified "non service side" on the guide (31).
  3. Lift the other side of the traveling spray cart (33) identified "service side" in order to permit the installation of the service side guide (32). Use six 1/4-20 x 3/8 bolts
  4. Rest the traveling spray cart (33) on the guides. Check if the traveling spray cart moves freely, then install the pulley (33A), fastening it with the screws, washers and nuts provided.

## » "U" Bar Spray Nozzles

1. Install "U" bars (39) between interior walls and left guards (34A,B,C). See Fig. 3-8.
2. On service side, install "U" bars (39) between interior walls and right guards (36A, C). The "U" bar must circulate between the two tubes of middle guard (36B). This is the only component that can occupy this space.

**NOTE: For CW-220 only: "U" bars must be installed between central guards (35A), (35B) and (35C).**

3. To attach the "U" bars (39), use the union already installed. (One part is welded on the traveling spray cart (33), the other on the "U" bars (39)).
4. Attach filter assembly (37) to elbow. Join outlet of filter assembly to traveling spray cart using hose (38).

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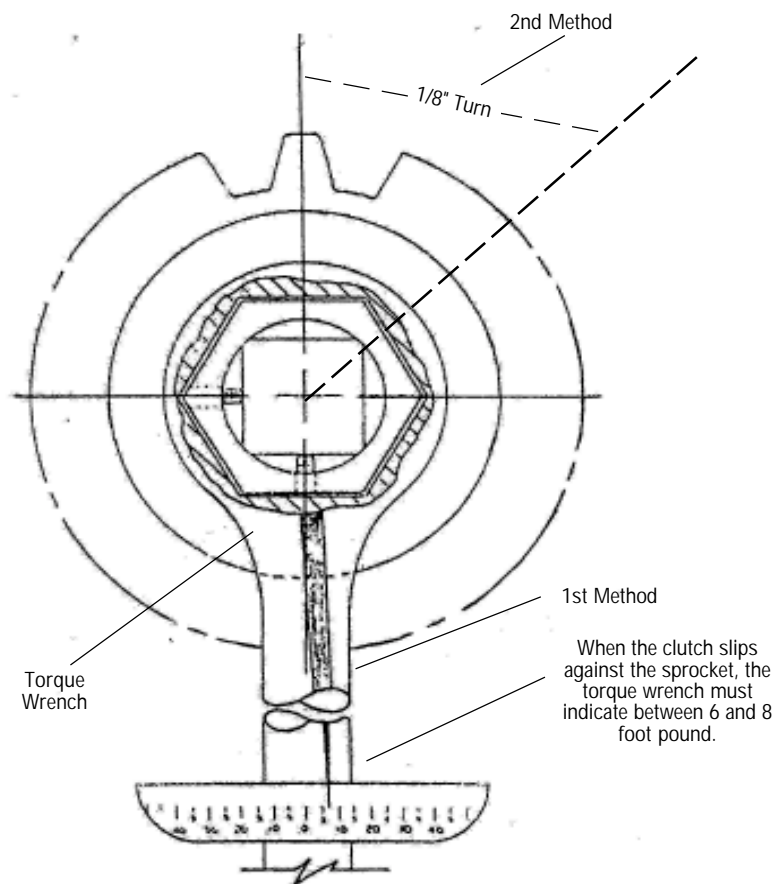
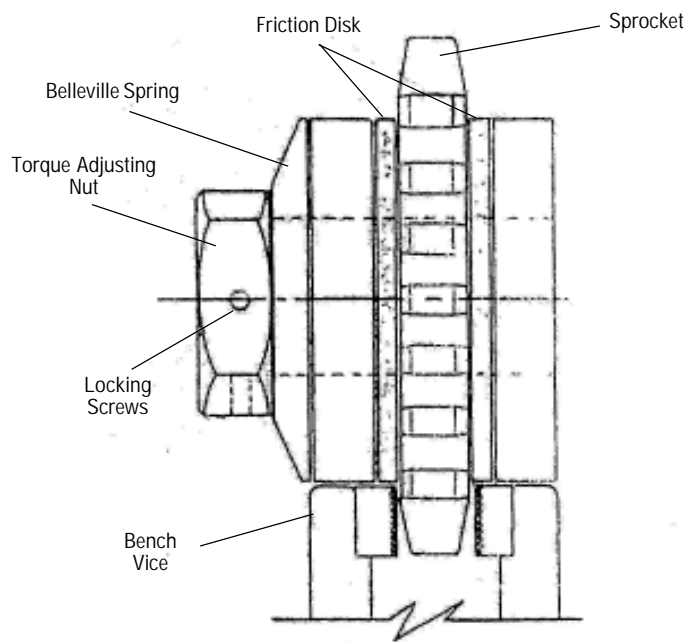
- » Guards
1. Attach left guards: top (34A), center (34B) and bottom (34C) on non service side joining the extremities identified «load side» and «unload side» with those of the washer. Use twelve 1/4-20 x 3/8 bolts. See Fig. 3-8.
  2. Same procedure for right guards: top (36A), center (36B) and bottom (36C) on service side. Use twelve 1/4-20 x 3/8 bolts.

**NOTE: For CW-220 only: Repeat the same operation for center guards: top (35A), middle (35B) and bottom (35C). Use twelve 1/4-20 x 3/8 bolts.**

3. Fasten the guards on the plates already installed on the washer. Use provided bolts.

» Pulley Supports for Traveler System

1. Attach the supports (40) identified on the plates situated inside of the washer, at the upper part of the ends. Use eight 1/4-20 x 1/2 bolts, 1/4 washers and eight lock washers. See Fig. 3-8.
2. Connect the air vent outlet (42) to the wall inlet identified on the washer. See Fig. 3-11.
3. Install traveler system (30). Use four 3/8 x2 hex bolts and four 3/8 lock washers. See Fig. 3-6.
4. Attach the braces (11B) and (12B) to the frame of traveler system (30). Use two 1/4-20 x 1/2 hex bolts. See Fig. 3-6.

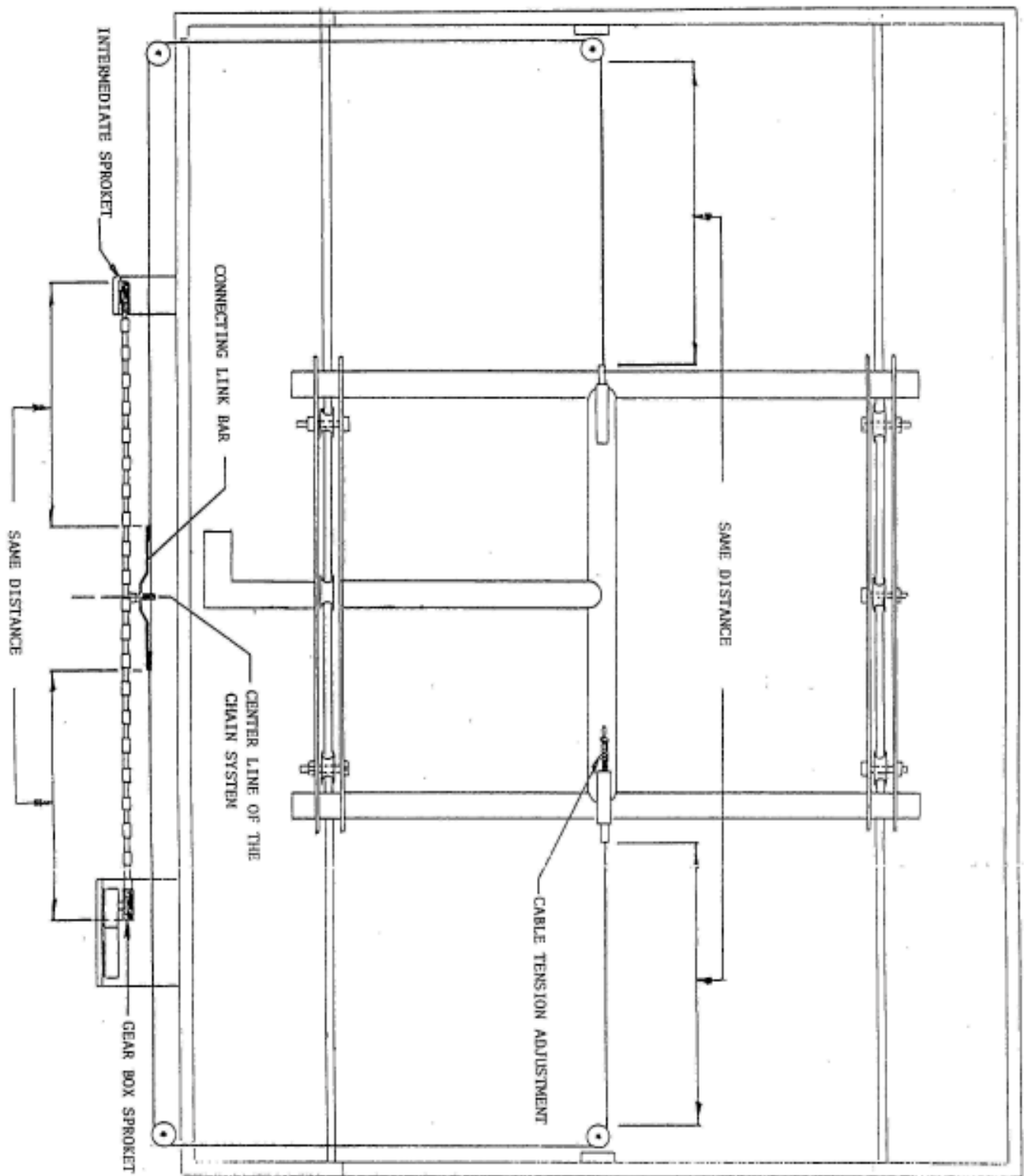


Ref.: 920-008-371

**Figure 3-9. Clutch Adjustment**

- » Traveler Cable
1. Verify that traveling spray system and each pulley moves freely.
  2. Unscrew the torque adjusting nut on the clutch to allow easy movement of the chain system. See Fig. 3-9.
  3. Rotate the chain system by hand until the connecting link on the bar comes to the center line of the chain system. See Fig. 3-10.
  4. Tighten the clutch by screwing the torque adjusting nut in order to prevent any further movement. The connecting link must stay on the center line when installing the cable.
  5. Inside sump, center the traveling spray system. The two distances between the attachment and the pulley must be the same. The system must not move when installing the cable.
  6. Install the cable on site. Make sure cable runs into pulleys.
  7. Loosen the clutch and move the system by hand. For clearance purposes, the spray system must reverse approximately 3" from the pulleys located at both ends of the sump.
  8. Adjust clutch:
    - a) Remove clutch and sprocket from gear box.
    - b) Clamp the sprocket in bench-vice (see Fig. 3-9)
    - c) Untighten the two locking screws and the torque adjusting nut.
    - d) Hand-tighten torque adjusting nut until it is flush against the bellville spring.
    - e) Tighten torque adjusting nut with a wrench approximately 1/8 of a turn and lock it with the locking screw.
    - f) Apply torque wrench on the torque adjusting nut and check the torque you need to make the clutch slip against the sprocket: Torque between 8.15 and 10.85 N•m (6 and 8 lbf ft). That torque is equivalent to a tension force on the wire of approximately 200N (45 lbf).
    - g) If the torque indicated is too high or too low, return to step c and tighten or untighten the torque adjusting nut until you have the required torque.
- Or:
- a) Untighten the two locking screws and the torque adjusting nut. See Fig. 3-9.
  - b) Hand-tighten torque adjusting nut until it is flush against the bellville spring.
  - c) Tighten torque adjusting nut with a wrench (or key) 1/8 of a turn and lock it with the locking screws. That operation should permit the clutch to slip at a tension force on the wire of approximately 200 N (45 lbf).

**NOTE: after using any of the two methods, start the traveling spray system and check if the clutch is still slipping against the sprocket. If the clutch slips it could be due to:**



**Figure 3-10. Cable Adjustment**

Ref.: 920-008-370

*a) Oil infiltration between friction disks.*

*b) Friction disks in bad condition\*.*

*c) Wrong clutch adjustment\*.*

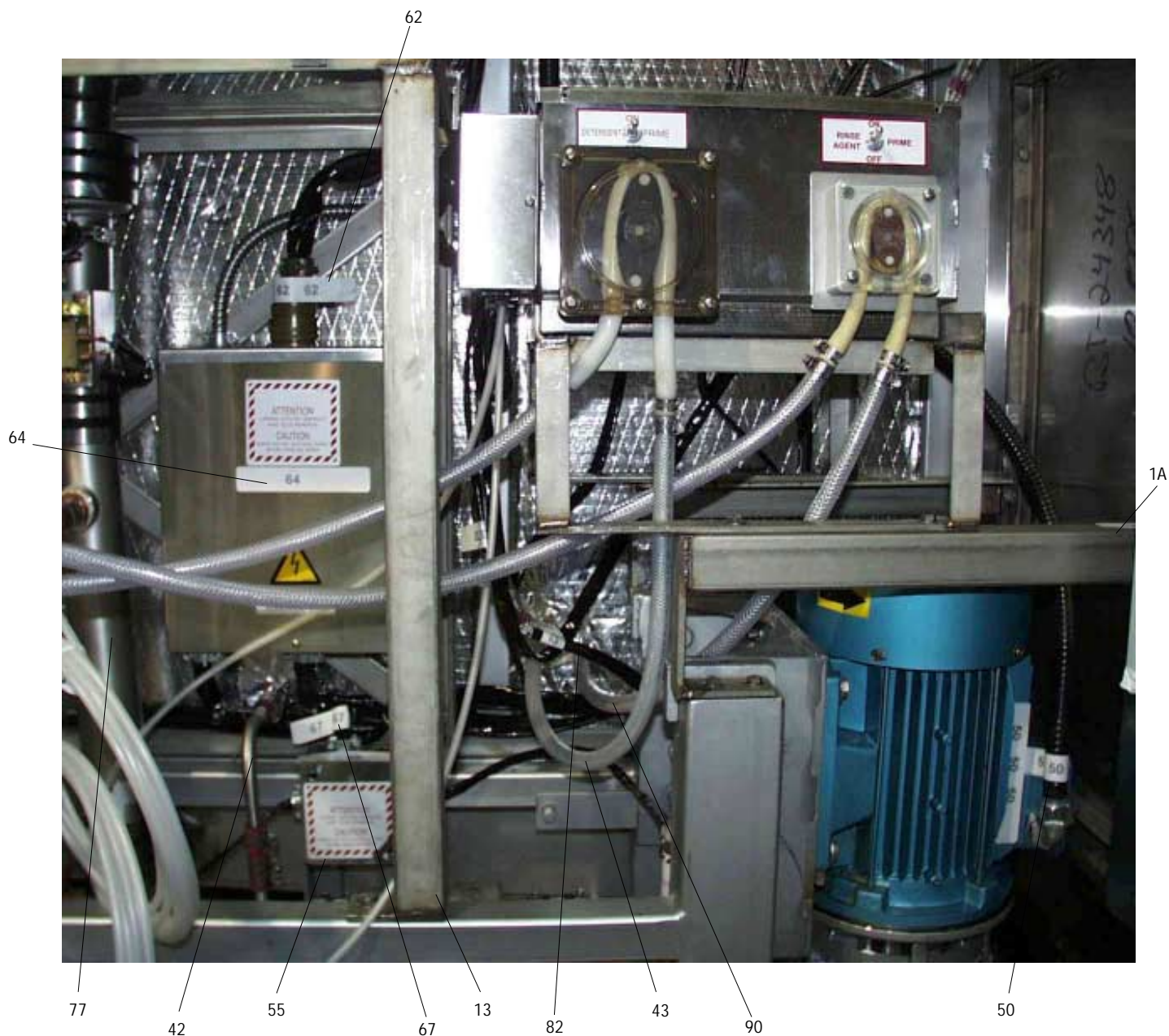
*\* In some cases you will have to tighten a little bit more the torque adjusting nut.*

9. To adjust cable tension, unscrew the socket head bolts which retain the cable at each end of the connecting link, thus permitting the tension on the cable to be the same on each side of the traveler.

**IMPORTANT:** Give the proper tension to the cable by using the special device mounted at one end of the cable (not too tight and the spring not too compressed). Tighten the socket head bolts. Start the traveling system moving under the controls (motorized). The proper tension will be found if the cable does not show any slack on the back pulleys when the traveller drives back and forth. Unscrew the socket head bolts each time you readjust the tension to permit equal tension on each side.

» **Crate C** Contents:

- Unload side door (9) (two doors if 220 model).
  - Load side door (10) (two doors if 220 model).
  - Right load side door (11).
  - Hot water tank assembly (13): junction box (64); electrical conduits (67, 82, 53, 123); electrical conduit (54) from junction box to control (12a); tank overflow (49); tank outlet (77) .
  - Control Console box (63) (62).
  - Electrical box (7) with: electric conduit (50) for pump; electric conduit for traveler (51); electric conduit (52) to fan; electrical conduit (53); junction box (64).
- 
- Hot Water Tank Support Assembly
1. Install hot water tank support with hot water tank (if option applies) (13) on service side base (75) (see Figure 3-6); and join it to the hot water tank outlet (77). Use four 5/16-18 x 1/2 bolts and four lock washers. See Fig. 3-11.
- Detergent pump system:
1. Connect the hose coming from the detergent pump to the inlet identified on the wall.
  2. If options apply, connect hoses: detergent (43) or rinse agent (90).

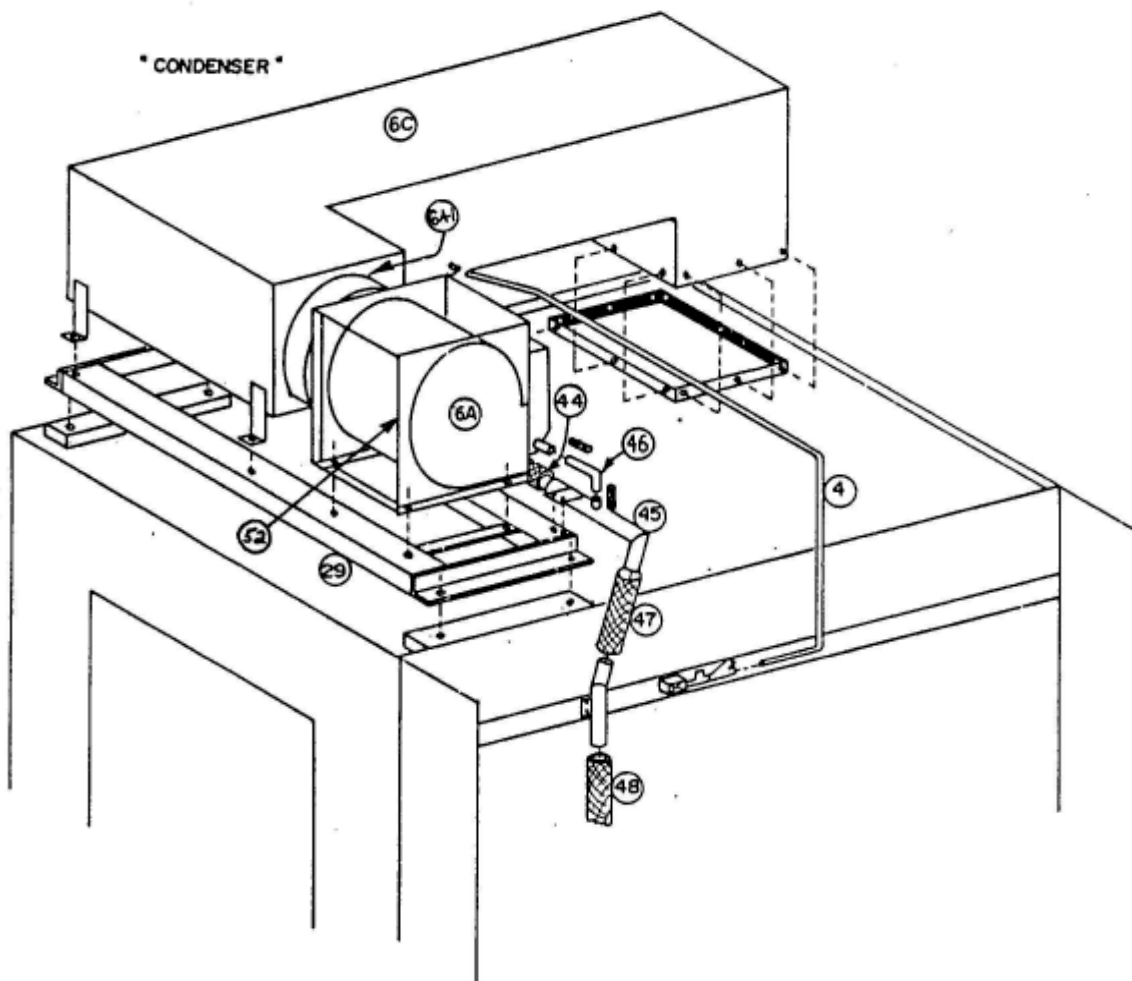


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**Figure 3-11. Options**

- Electrical Connection:

1. Connect the end of the electrical conduit (82) coming from the junction box (64) to the electrical conduit coming from the detergent pump. Join corresponding numbers of each wire.
2. Connect the end of the electrical conduit (121-123) to control panel (see Fig.3-14)
3. Install the electric box (7) on the plate already fixed above the detergent tank. Use three 8-32 x 3/8 bolts and 1/4 washers. Then install the junction box (64) to the beam already installed on the service side. Use screws provided. See Figs. 3-11 and 3-13.
4. Connect electrical conduits (54) (see Figure 3-13). Connect electrical conduits ends (50) to the pump motor. Join numbers of each wire coming from the motor and the conduit. See Fig. 3-11.
5. Connect electrical conduit's end (51) to the traveler system motor. Join numbers of each wire coming from the motor and the conduit. See Fig. 3-13.
6. Connect electrical conduit's end (53) to the junction box (64).
7. Connect the end of the electrical conduit (58) to the junction point (58). Connect it with the connector already installed at conduit's end. See Fig. 3-13.
8. Connect the electrical conduit marked "58" coming from the motor of the automatic damper to the junction box no. 58. Join corresponding numbers of each wire. See Fig. 3-13.
9. Install the interior light, the protective glass and grill inside the washer. The assembly is identified by (61). See Fig. 3-8 (dryer option).
10. Connect the electrical conduit's end (67) to the junction box (55) already installed on the service frame. Join the corresponding numbers of each wire. See Fig. 3-11.
11. If automatic detergent and/or rinse agent injection is selected:  
Insert the control box (63) in the support already installed on the load side control panel (11A) (see Fig. 3-6). Connect the electrical conduit (62) coming from the control box to the female end installed at the top of the junction box (64) identified by the same number. Use two 6-32 x 3/8 screws. See Fig. 3-11, 3-13.



Ref.: 920-008-398

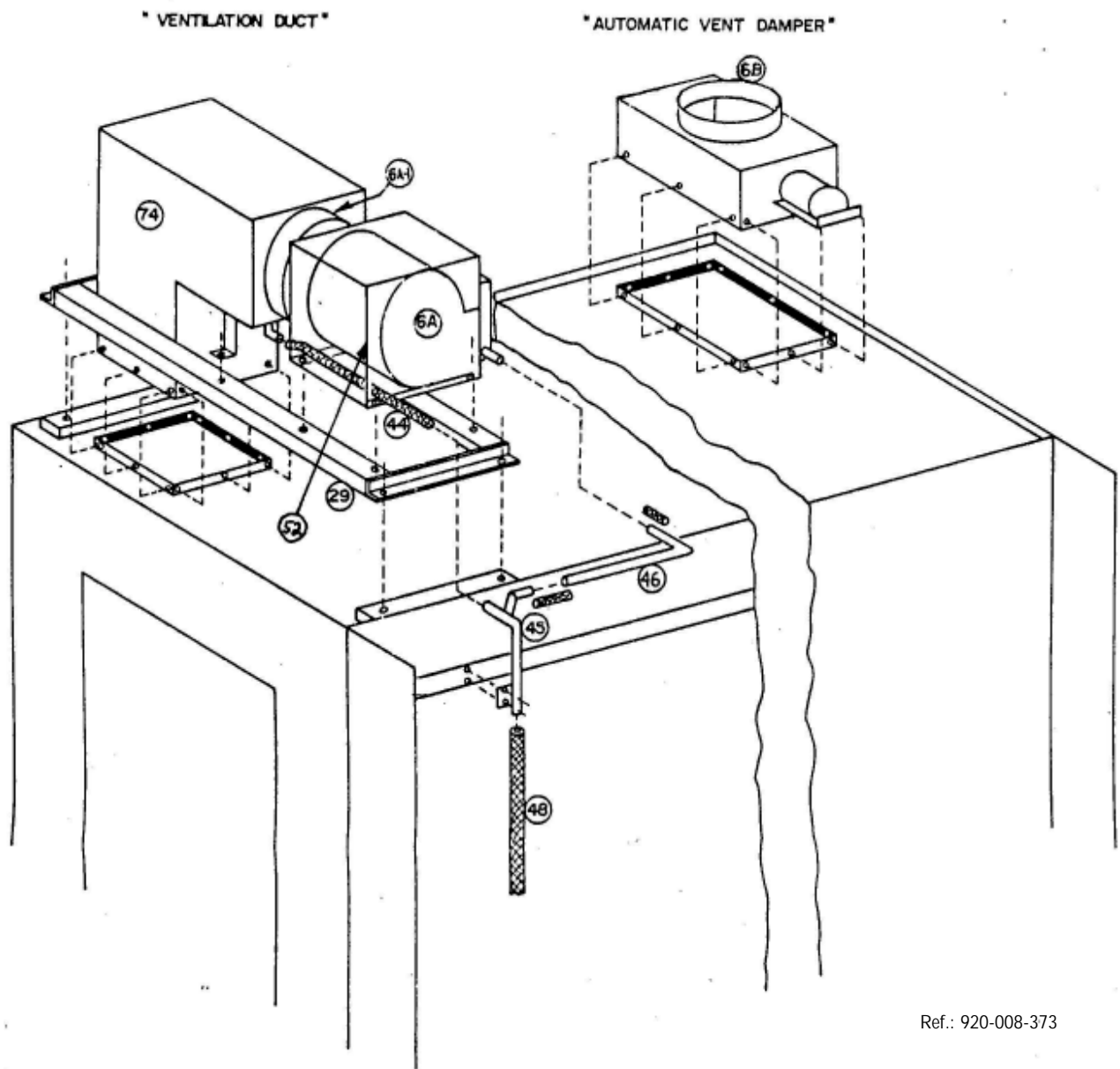
**Figure 3-12. Options: Condenser**



- » Crate D
  - Lubrication pipe (1).
  - Drying Option:
    - Lubrication pipe (2).
    - Fan support (29).
    - Suction duct (91).
    - Rubber joints assembly (91a, 92, 95).
    - Fan (93).
    - Heat exchanger (94).
    - Duct elbow (96) and thermostat.
    - Condenser (option) (97).
    - Steam pipe (102).
    - Heat exchanger drain hose (115).
    - Condenser rubber joint (116).
    - Steam pipe (133).
    - Steam return pipe (135).
    - Steam return pipe (136).
    - Clamps (14) for rubber joints.

Applies when Condenser, Ventilation Duct or Damper is selected:

- Automatic vent damper (6B) (if damper option).
- Condenser (6C) (if Drying option is Not present).
- Rubber joint for fan (6-A-1).
- Ventilation duct (74).
- Booster Fan (6A).
- Cold Water line (4).
- Drain hoses (44, 45, 46, 47, 48)

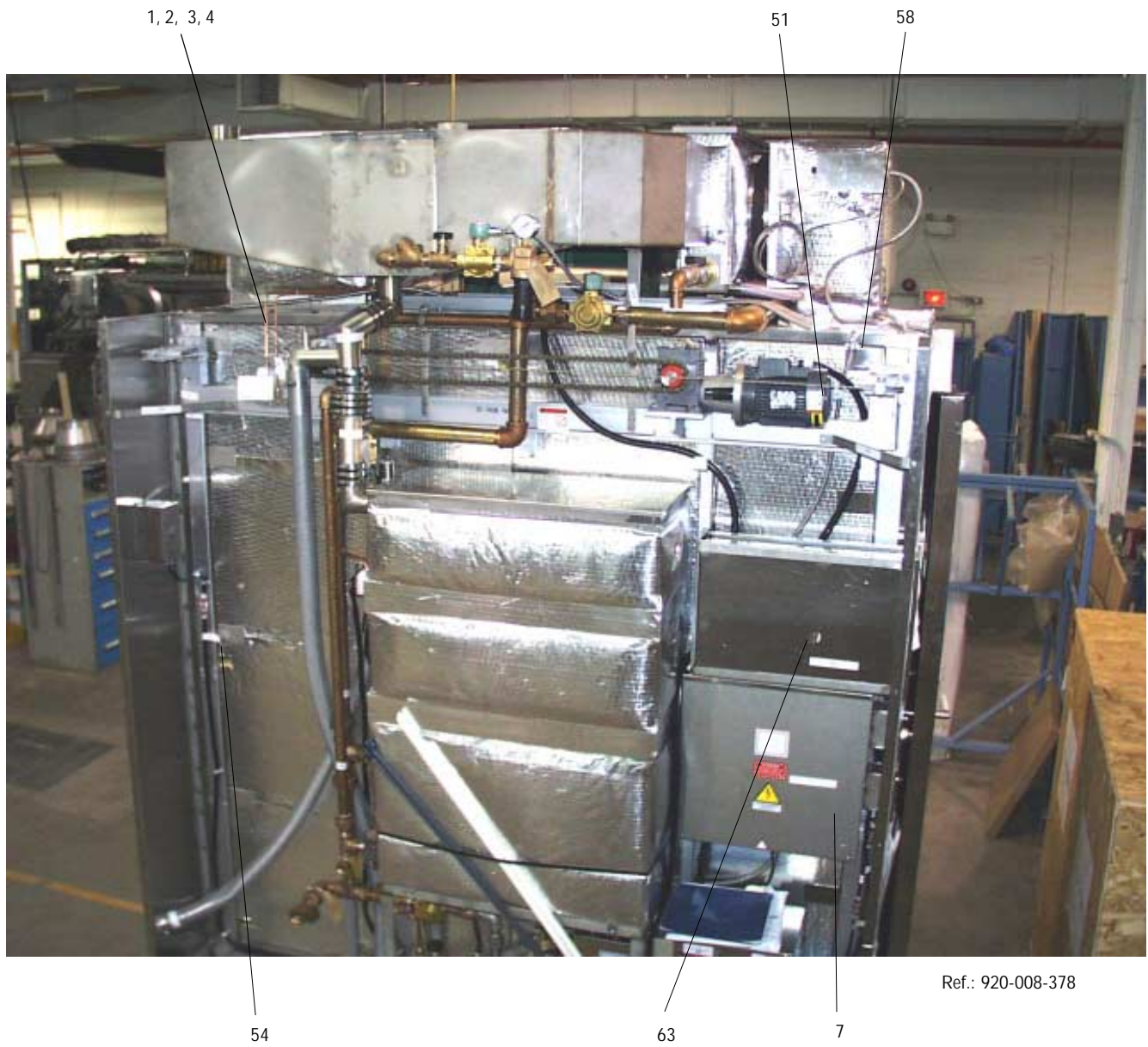


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**Figure 3-12A. Options: Ventilation Duct and Automatic Vent Damper**

» Drying Option See Fig. 3-14.

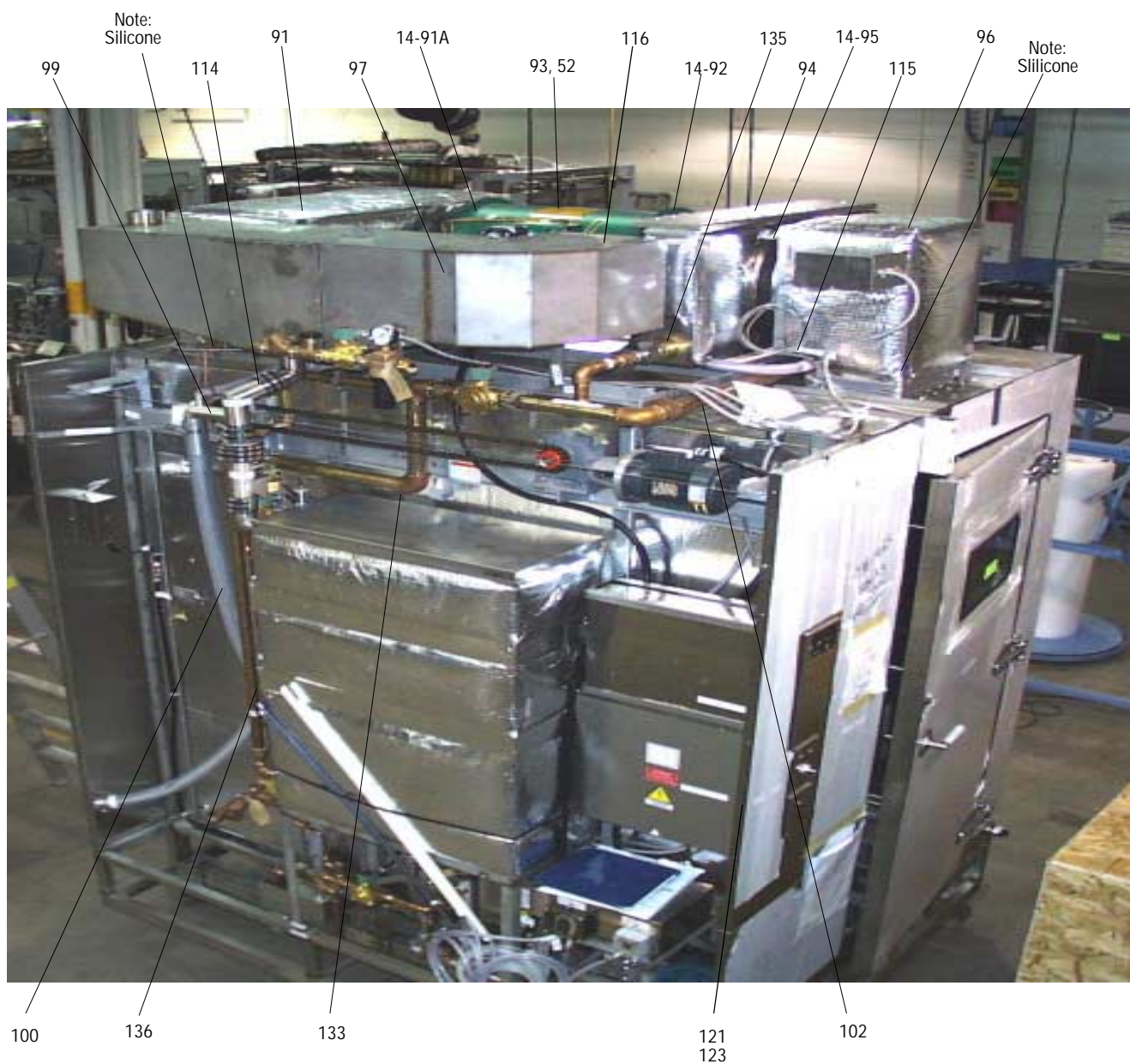
- Install blower support (29) (See Fig. 3-12):
  1. Install the suction duct (91) fix the end of condenser with 2 legs to its support and the other end to the chamber ceiling (28). Fasten with screws provided. Put silicone (see Fig.3-4).
  2. Attach one end of rubber joint (14, 91-A) to duct and install the fan (93) next to the suction duct. Fasten with provided screws.
  3. Attach one end of rubber joint (14, 92) to fan, then install heat exchanger (94) on support.
  4. Joint rubber joint (14, 95) to heat exchanger (94).
  5. Install duct elbow (96) and attach it to rubber joint (95).
- If condenser is ordered (see Fig. 3-14):
  1. Install the condenser (97) by fastening brackets 97A, 97B and 97C. Attach condenser to fan outlet with rubber joint (116).
  2. Install the cold water recuperator (99) on top of valve. Attach to condenser and make connections for plastic hoses (100) to the water collector (76) (see Fig. 3-6) and (114) to suction duct (91).
  3. Connect electrical conduit from condenser (97) to junction box (58) (see Fig.3-13).
  4. Install suction duct drain hose (114), condenser drain hose (115) and washer top drain hose (96) (see Fig. 3-14).
  5. Connect steam pipe end marked (133), to pipe (102) and steam pipe to heat exchanger (94).
  6. Connect steam return pipe (135) to heat exchanger (94) and steam return pipe (136).
  7. Connect wire (133) from steam valve to junction box (58) (see Fig. 3-13).
  8. Connect electrical conduit from thermostat to junction box (58).
  9. Connect electrical conduit end (52) to the fan motor (93). Match wires coming from motor fan and conduit (see Figure 3-14).
  10. Install lubrication pipe (1, 2, 3, 4) from the frame of the traveler system (30) (see Fig. 3-6) to the fan (93) (see Fig. 3-13).



**Figure 3-13. Automatic Drying (Option)**

## » Options

- If a condenser unit and/or booster fan options are selected:
  1. Install the support (29) on the top of the washer, use four 3/8-16 x 1/2 hex. bolts. See Fig. 3-12.
  2. Install condenser (6c). Apply silicone.
  3. Install booster fan (6A) with rubber joint (6A-1) on its support (29), Use four 5/16-18 x 1/2 bolts and four 5/16 washers.
  4. Connect the cold water line to the condenser with the provided pipe (4).
  5. Connect the hose (44) between the drain of the condenser and elbow (45). Use the provided geared clamps.
  6. Connect the hose (47) between the elbow (45) already installed on the support (29) and the elbow fixed to the frame of the traveler support system.
  7. Connect the elbow (46) between the fan outlet and the elbow (45) already fixed. Use the provided geared clamps.
  8. Connect the hose (48) between the elbow fixed to the traveler system, and the water collector (76) (see Fig. 3-6) located at the base of the washer, service side.
  9. Connect electrical conduit's end (52) to the fan motor. Join the numbers of each wire coming from the motor and the conduit.
- If automatic vent damper is selected:
  1. Install damper (6B). Apply silicone. See Fig. 3-12A.
- If ventilation duct:
  1. Install condenser support (29) on top unit (Fig. 3-12A).
  2. Install ventilation Duct (74). Apply silicone.
  3. Install booster fan (6A) with rubber joint (6A-1).
  4. Connect hose (44) between the drain of the ventilation duct and elbow (45). Use provided geared clamps.
  5. Connect elbow (45) between the fan outlet and elbow (45) already fixed. Use provided geared clamps.
  6. Connect hose (48) between the elbow fixed to the traveler system and the water collector (76) (see Fig.3-6) located at the base of the washer, on service side.
  7. Connect electrical conduit's end (52) to the fan motor. Join the numbers of each wire coming from the motor and the conduit.



Ref.: 920-008-379

**Figure 3-14. Drying Option**

- » **Final Assembly**
1. Install the support for pit floor (68) (if pit mounted) or lower panel (68) around the washer (if free-standing). See Fig. 3-16.
  2. Install large filter for sump indicated by number "83" on the bottom of the sump (not shown).

## Accessories

- » **Crate E** (Applies only if free-standing option is selected).

- Exterior panels for service side (73),
- Lower front panel (71),
- Upper front panel (85),
- Trim strips (84),
- Hardware box.

- » **Enclosure Walls**
1. Install the enclosure walls with doors (70) (if applicable) on service side as shown on Fig. 3-15. Use six 1/4-20 x 1/2 bolts, and six 1/4 washers.
  2. Install the exterior panels on non service side (73) along with panel joint cover (73A) (if applicable). Use four 1/4-20 x 1/2 bolts and four 1/4 washers see Fig. 3-16.
  3. Install the lower front panels (71), the upper front panels (85) in both ends of the washer. Use six 8-32 x 1/4 screws.
  4. Install the trim strips (84).

- » **Ramp** (If selected)

- Access ramps (72),
  - Supports for access ramps (87)
1. Install the access ramps as shown on Fig. 3-16. Use provided screws.

- » **Manifold Cart** Applies only if Manifold Cart is selected:

Contents:

- Manifold Cart cart.



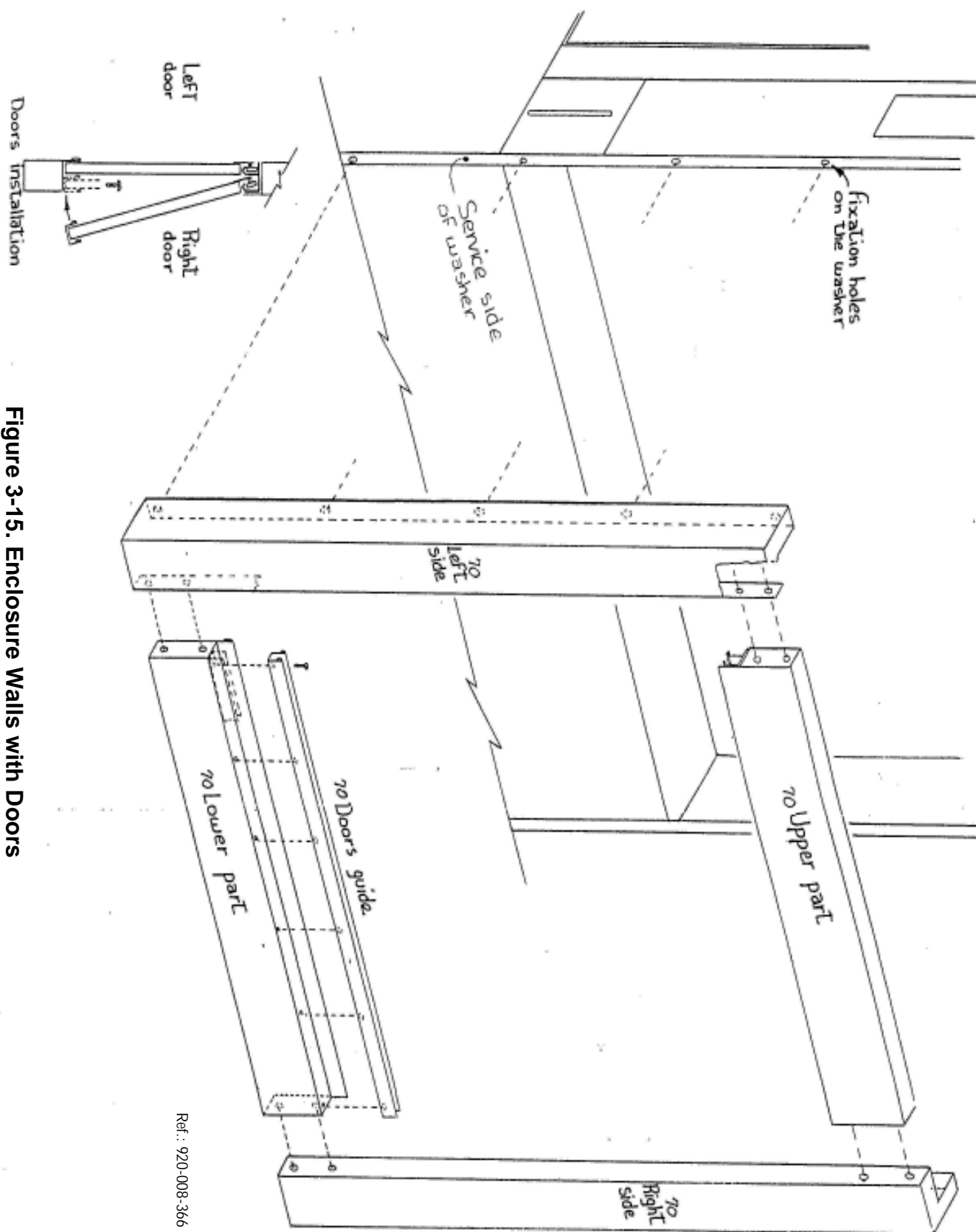


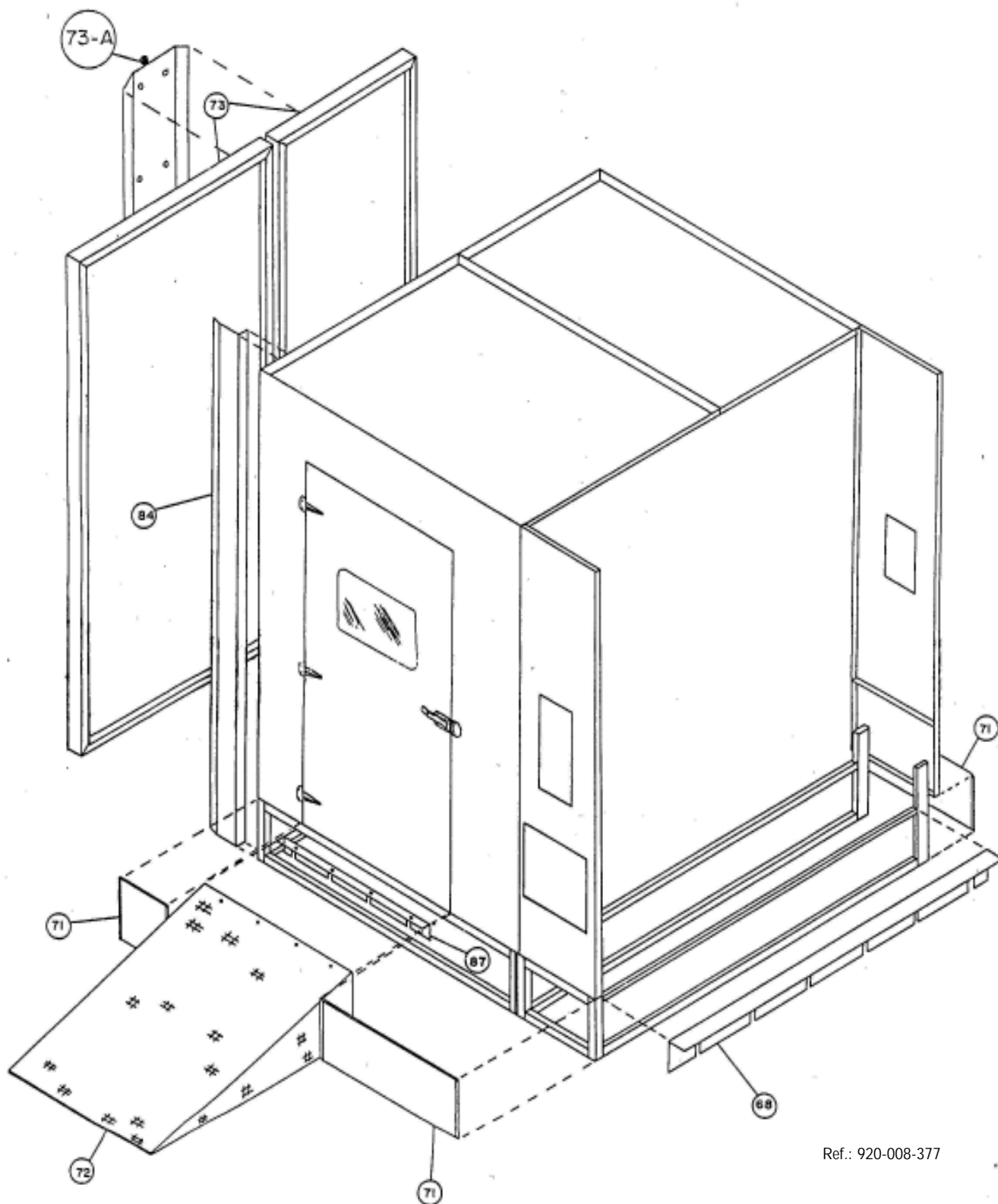
Figure 3-15. Enclosure Walls with Doors



////////////////////////////////////  
**Connect Utilities**  
////////////////////////////////////

Connect the following supply lines to the unit:

1. **COLD WATER** (if unit is equipped with steam injection and/or non-vented drying options) – Blow out building cold-water supply line to remove chips, scale, etc. Connect line to washer.
2. **HOT WATER** – Blow out building hot-water supply line to remove chips, scale, etc. Connect line to washer.
3. **STEAM** (if unit is equipped with steam injection or water temperature booster tank option) – Blow out building steam supply line to remove chips, scale, etc. Connect line to washer.
4. **WASTE** – Connect washer drain line to building waste line.
5. **VENTILATION** – If unit is not equipped with optional non-vented drying package, connect washer ventilation to a dedicated building exhaust.
6. **ELECTRIC** – Connect building electrical supply to washer. Verify that all electrical connections are tight.
7. Open building supply valves and check for leaks. Correct if necessary.



Ref.: 920-008-377

**Figure 3-16. Accessories**

## Cleanup



**CAUTION:** When removing adhesives from stainless steel, use a solvent specially formulated for that purpose. Rub in back-and-forth motion (in same direction as surface grain). Solvent rubbed in a circular motion or applied with a wire brush or steel wool on door and chamber assemblies can be harmful to stainless steel. Do not use solvents on painted surfaces.

1. Remove any adhesive found on panels and inside chamber with a small amount of non-flammable cleaning product. Keep solvents away from all painted surfaces or damage may result.
2. Remove all white assembling stickers from unit with a small amount of non-flammable cleaning product. Keep solvents away from all painted surfaces or damage may result.
3. Inspect work area to be sure all materials used during installation have been removed.
4. Remove all floor grids and clean sump thoroughly. Remove tie-wraps, screws or other items that could enter and damage or jam pump.

**THIS COMPLETES THE INSTALLATION.** Contact your local STERIS representative to schedule a service technician to test your installation and show persons designated how to operate unit. Refer to *Operator Manual (P-122990-167)* for operating procedures.

Installation checklist must be completed after the washer is installed and prior to performing the operational test to assure complete and correct installation.

**NOTE: contact your STERIS representative to schedule a technician to test your installation and demonstrate proper equipment operation.**

- ☐ Shutoff valves (not by STERIS), for maintenance purposes and capable of being locked in OFF position only, installed on steam, air and water lines and in compliance with local occupational health and safety regulations, as well as electric and plumbing codes.
- ☐ Disconnect switches (not by STERIS), for maintenance purposes and capable of being locked in OFF position only, installed in electrical supply lines near the unit and in compliance with local occupational health and safety regulations, as well as electric and plumbing codes. Disconnect switches must bear the identification of the equipment to which they are connected.

**NOTE: If unit is installed next to other equipment, shutoff valves and disconnect switches should be located so that service can be shut off to one piece of equipment at a time.**

- ☐ Washer positioned, as shown on Equipment Drawing, with required clearance space and in relation to building supply lines.
- ☐ Washer is level. Remove cabinet and use leveling shims if necessary.
- ☐ Building cold water line supplies water to unit as specified on Equipment Drawing (required only if Drain Discharge Cooldown System, is present).
- ☐ Building hot water line supplies water to unit as specified on Equipment Drawing.
- ☐ Building steam line provides steam to unit as specified on Equipment Drawing.
- ☐ Building condensate return line is connected to washer as specified on Equipment Drawing.
- ☐ Building air line supplies air to unit as specified on Equipment Drawing.
- ☐ Building waste line is provided to washer as specified on Equipment Drawing.
- ☐ Building ventilation system is connected to washer as specified on Equipment Drawing.
- ☐ Electrical supply for unit is as specified on Equipment Drawing.
- ☐ Floor surrounding unit is as specified on Equipment Drawing.
- ☐ Verify all quick disconnect clamps are tightened. Tighten if necessary.

- ☐ If present, ramps are correctly attached to washer as specified in Section 3.
- ☐ Make sure all pneumatic connections and switches are properly installed, adjusted and connected.

**IMPORTANT:** After a few weeks of operation, inspect unit for leaks. Re-tighten all clamps and connections.

Test procedures included in this section should be performed by a STERIS trained service technician prior to normal operation of the washer. Contact your STERIS representative for details on scheduling an Operational Test by a qualified STERIS service technician.

1. Verify that wash chamber is empty and all packing material has been removed.
2. Verify that debris screen is correctly positioned in wash chamber sump.

## Operational Test

**WARNING - ELECTRIC SHOCK AND/OR BURN HAZARD:** Make sure power is OFF when checking operation of valves, and that machine is cool. Valves are energized when power is on and piping/valves are hot after machine has been run.

**WARNING - BURN HAZARD:** Wear gloves and face protection and open chamber door slowly if it is necessary to open door during a cycle. Hot water may be sprayed through door opening when checking automatic stop while washer is operating.

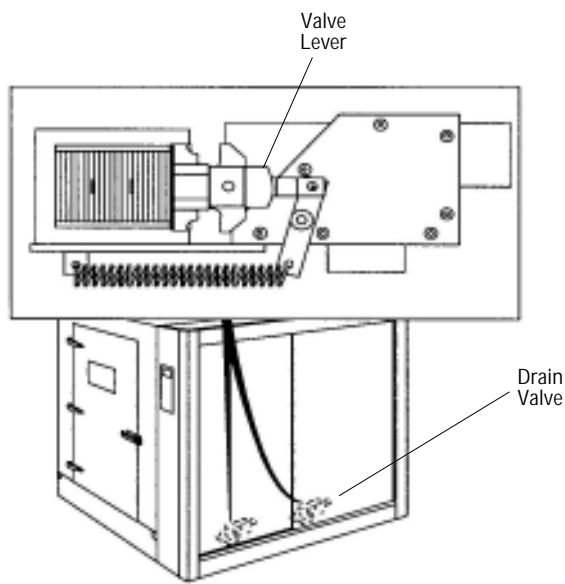
**WARNING - BURN HAZARD:** After pressing STOP, wait until water flow stops before opening door. Hot water/steam may be sprayed through door opening if door is opened too soon.

**CAUTION:** Once three-phase power is connected, check pump for correct rotation. Incorrect pump rotation may result in pump damage and improper cleaning action.

1. Locate drain valve and, if optional manifold cart coupling system is installed, manifold cart diverter valve on service side of washer (see Figure 5-1). Manually operate valve lever to ensure proper operation. Verify gaskets are not sticking to seat (lever operation difficult).
2. If water temperature booster option is installed, check transfer valve located under booster tank on service side of washer (see Figure 5-2). Operate valve lever and verify that gasket is not sticking to seat (lever operation difficult).
3. Check glass gauge on side of traveling spray manifold gear box to ensure oil level is correct (see Figure 5-3). If oil level is below the red indicator, remove plug and fill with 90-weight SUNOCO SUNE-1090, Mobil Spartan EP-320 or equivalent. Add oil until oil level reaches red indicator, then replace plug.

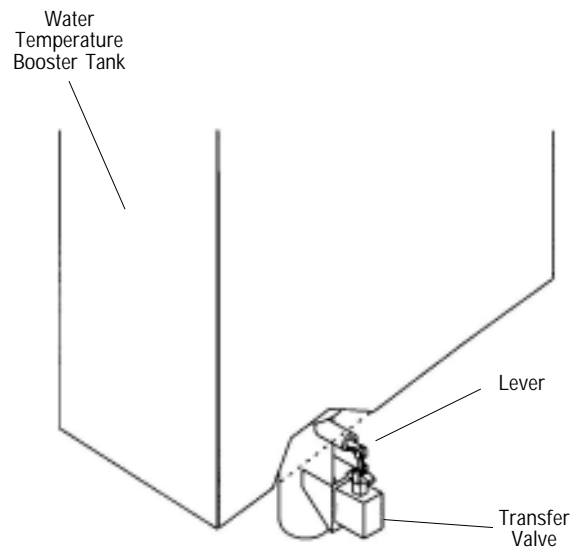
**NOTE:** Do not take gauge reading while unit is operating.

4. Check that traveling spray manifold wire is on pulleys.
5. Close door and turn power switch to **ON** (see Figure 5-4). **POWER** indicator light comes on.
6. If option is installed, check that water temperature booster tank begins to fill as soon as power is turned on.
7. Check pump rotation. Pump should turn in direction indicated by arrow (counterclockwise, looking from top).
8. Press **STOP**.
9. Remove and clean chamber filters and traveling spray manifold hose filter (see Figure 5-5).
10. Check traveling spray manifold nozzles for sediment. If necessary, use a piece of wire (approximately the wire gauge of a large paper clip) to clean nozzles (see Figure 5-6).
11. If optional manifold cart coupling system is included on unit, check that sliding inlet and filter are installed in chamber floor. Open door and move manifold cart into chamber. Position cart over sliding inlet.
12. Close door, select manifold cart on the control and press **START**. Observe cart through window and verify that spray arms are spinning.



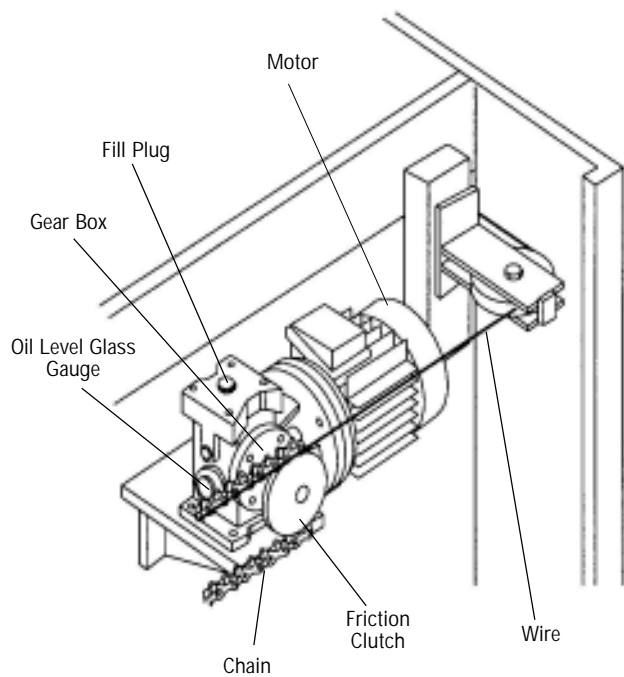
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**Figure 5-1. Check Operation of Valves**



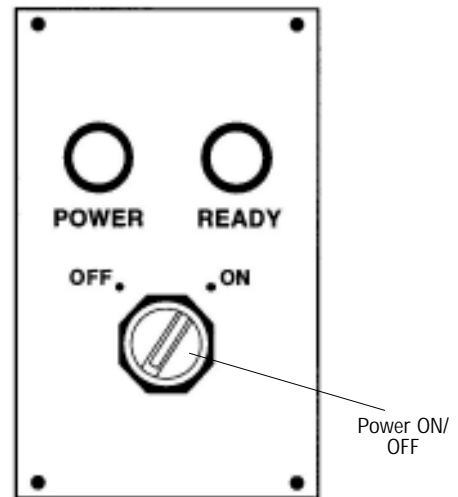
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**Figure 5-2. Check Transfer Valve on Water Temperature Booster Tank**




Ref.: 920-008-334

**Figure 5-3. Check Traveling Spray Manifold**




Ref.: 920-008-337

**Figure 5-4. Power ON/OFF Switch**

 **WARNING - BURN HAZARD:** Make sure power switch is **OFF** and keep chamber door(s) open when entering chamber to check operation of safety cable. When power is **ON** and door is closed, a cycle can be started and hot water would be sprayed into chamber.

 **WARNING - FALL HAZARD:** To prevent falls, keep floors dry. Promptly clean up any spills or drippage.

 **WARNING - BURN HAZARD:** Allow piping to cool down before inspecting and/or cleaning supply-line strainers.

 **CAUTION:** When choosing a detergent, use one with a low chloride content. Detergents with a high chloride content can be harmful to stainless steel.

13. Inspect piping for leaks. If any leaks occur, tighten connection hose clamps.
14. If optional exhaust blower is included on unit, check fan rotation. Arrow on fan indicates proper direction.
15. Check traveling spray manifold drive rotation. Gear box sprocket should turn clockwise.
16. Turn power switch to **ON**.
17. Press **START**. Verify that cycle continues from point where interrupted.
18. Allow cycle to run to completion. Verify that the UNLOAD indicator light on front control panel (load-side) and, if double-door unit, on back control panel (unload-side) come on.

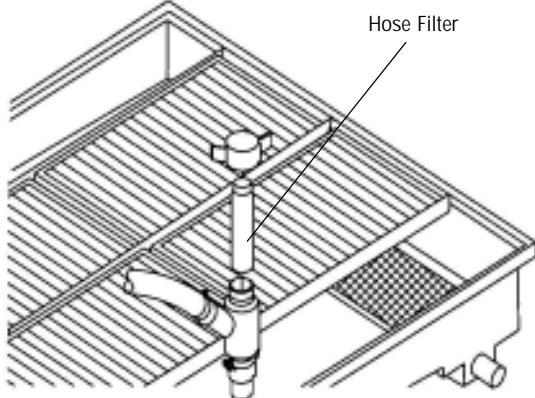
**NOTE:** Always use a non-foaming detergent to assure that carts and, if unit is equipped with manifold utensil cart feature, glassware and utensils can be thoroughly rinsed. Detergents with a high chloride content should not be used, as chlorides are harmful to stainless steel. Follow manufacturer's recommendations for amount of detergent to be used.

19. Install detergent and rinse agent, if option is installed (see Figure 5-7).
  - a. Place low-level sensor into container.
  - b. Place pickup tube into container.
  - c. Operate prime switch to fill tubing. Verify that pickup tube fills with detergent (or rinse agent).
20. Position detergent/rinse agent alarm switch to **ON**. Lift low-level sensor out of container. Verify that **CHECK SUPPLY** light comes on. Replace sensor in container.
21. Open door and unload chamber (if cart was inserted for test).
22. Turn power switch to **OFF**.
23. Close building supply valves. When piping has cooled down, check and, if necessary, clean supply-line strainers.

**IMPORTANT:** After a few weeks of operation, inspect unit for leaks. Re-tighten all clamps and connections.

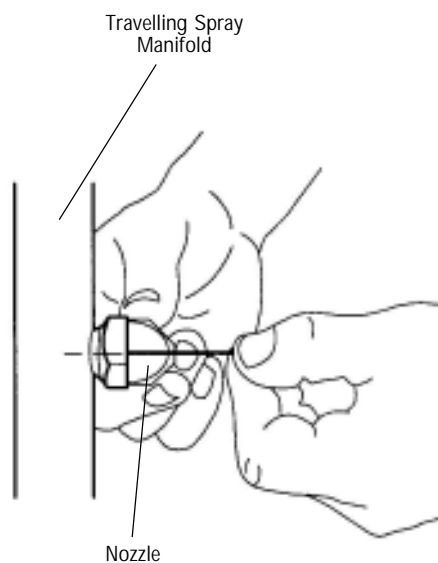
**WASHER IS NOW READY FOR NORMAL OPERATION.** Contact your local STERIS representative to schedule a demonstration on how to operate the equipment. Refer to the Operator Manual (P-122990-167) for operating instructions.





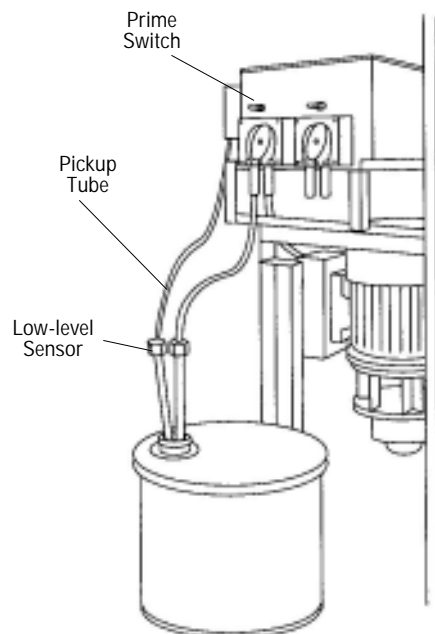
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**Figure 5-5. Clean Traveling Spray Manifold Hose Filter**



Ref.: 920-008-339

**Figure 5-6. Clean Traveling Spray Manifold Nozzles**



Ref.: 920-008-340

**Figure 5-7. Install Pickup Tube into Detergent Container**